## **AMENDMENTS TO THE CLAIMS:**

Please amend the claims as follows, substituting any amended claim(s) for the corresponding pending claim(s):

1. (Currently Amended) For use in a fixed wireless access network comprising a plurality of base stations capable of bidirectional time division duplex (TDD) communication with wireless access devices disposed at a plurality of subscriber premises, a TDD frame transmission synchronization apparatus comprising:

a frame allocation controller capable of

receiving, from a first radio frequency (RF) modem shelf associated with a first base station, access requests generated by a first group of wireless access devices communicating with said first base station, and

determining, from traffic requirements associated with said access requests, a time duration of a longest downlink portion of TDD frames used by a first any one of a plurality of RF modems in said RF modem shelf to communicate with a first wireless access device within said first group of wireless access devices,

wherein said frame allocation controller further determines a frame allocation of the downlink portion and the uplink portion of TDD frames used by said plurality of RF modems to communicate with said first group of wireless access devices.

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2. (Original) The TDD frame transmission synchronization apparatus as set forth in

Claim 1 wherein said frame allocation is capable of preventing a second wireless access device from

transmitting an uplink portion of a TDD frame received by a second RF modem during transmission

by said first RF modem of a downlink portion of a TDD frame.

3. (Original) The TDD frame transmission synchronization apparatus as set forth in

Claim 2 further comprising a clock signal distribution circuit capable of synchronizing the starting

points of the downlink portions of TDD frames transmitted by said plurality of RF modems in said

RF modem shelf.

4. (Original) The TDD frame transmission synchronization apparatus as set forth in

Claim 3 wherein said frame allocation is determined from said time duration of said longest

downlink portion.

5. (Original) The TDD frame transmission synchronization apparatus as set forth in

Claim 4 wherein said frame allocation is further determined from a time duration of a guard band

between said uplink portions and said downlink portions.

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6. (Original) The TDD frame transmission synchronization apparatus as set forth in

Claim 5 wherein said frame allocation controller is further capable of receiving from a second radio

frequency (RF) modem shelf associated with a second base station access requests generated by a

second group of wireless access devices communicating with said second base station.

7. (Original) The TDD frame transmission synchronization apparatus as set forth in

Claim 6 wherein said frame allocation controller determines from traffic requirements associated

with said access requests generated by said first and second groups of wireless access devices a time

duration of a longest downlink portion of TDD frames used by a third RF modem associated with

one of said first and second RF modem shelves to communicate with a third wireless access device.

8. (Original) The TDD frame transmission synchronization apparatus as set forth in

Claim 7 wherein said frame allocation controller further determines a frame allocation of the

downlink portion and the uplink portion of TDD frames used by said plurality of RF modems in said

first RF modem shelf and a plurality of RF modems in said second RF modem shelf to communicate

with said first and second groups of wireless access devices.

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9. (Original) The TDD frame transmission synchronization apparatus as set forth in

Claim 8 wherein TDD frame transmission synchronization apparatus is disposed in said first RF

modem shelf.

10. (Original) The TDD frame transmission synchronization apparatus as set forth in

Claim 8 wherein TDD frame transmission synchronization apparatus is disposed in a central office

facility of a telephone network.

11. (Currently Amended) A fixed wireless access network comprising:

a plurality of base stations capable of bidirectional communication time division duplex

(TDD) communication with wireless access devices disposed at a plurality of subscriber premises;

and

a TDD frame transmission synchronization apparatus comprising:

a frame allocation controller capable of

receiving, from a first radio frequency (RF) modem shelf associated with a first base

station, access requests generated by a first group of wireless access devices communicating

with said first base station and

determining, from traffic requirements associated with said access requests, a time

duration of a longest downlink portion of TDD frames used by a first any one of a plurality

of RF modems in said RF modem shelf to communicate with a first wireless access device

within said group of wireless access devices,

wherein said frame allocation controller further determines a frame allocation of the

downlink portion and the uplink portion of TDD frames used by said plurality of RF modems

to communicate with said first group of wireless access devices.

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12. (Original) The fixed wireless access network as set forth in Claim 11 wherein said

frame allocation is capable of preventing a second wireless access device from transmitting an uplink

portion of a TDD frame received by a second RF modem during transmission by said first RF

modem of a downlink portion of a TDD frame.

13. (Original) The fixed wireless access network as set forth in Claim 12 further

comprising a clock signal distribution circuit capable of synchronizing the starting points of the

downlink portions of TDD frames transmitted by said plurality of RF modems in said RF modem

shelf.

14. (Original) The fixed wireless access network as set forth in Claim 13 wherein said

frame allocation is determined from said time duration of said longest downlink portion.

15. (Original) The fixed wireless access network as set forth in Claim 14 wherein said

frame allocation is further determined from a time duration of a guard band between said uplink

portions and said downlink portions.

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16. (Original) The fixed wireless access network as set forth in Claim 15 wherein said

frame allocation controller is further capable of receiving from a second radio frequency (RF)

modem shelf associated with a second base station access requests generated by a second group of

wireless access devices communicating with said second base station.

17. (Original) The fixed wireless access network as set forth in Claim 16 wherein said

frame allocation controller determines from traffic requirements associated with said access requests

generated by said first and second groups of wireless access devices a time duration of a longest

downlink portion of TDD frames used by a third RF modem associated with one of said first and

second RF modem shelves to communicate with a third wireless access device.

18. (Original) The fixed wireless access network as set forth in Claim 17 wherein said

frame allocation controller further determines a frame allocation of the downlink portion and the

uplink portion of TDD frames used by said plurality of RF modems in said first RF modem shelf and

a plurality of RF modems in said second RF modem shelf to communicate with said first and second

groups of wireless access devices.

19. (Original) The fixed wireless access network as set forth in Claim 18 wherein TDD

frame transmission synchronization apparatus is disposed in said first RF modem shelf.

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20. (Original) The fixed wireless access network as set forth in Claim 18 wherein TDD frame transmission synchronization apparatus is disposed in a central office facility of a telephone network.